UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 7,124,069 B2 APPLICATION NO. : 10/630439

: October 17, 2006

DATED INVENTOR(S)

: Meuris et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

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Column	Line	Description of Error
Title Page (56) Col. 2 (Other Publications)	2	Delete "differentail" and insert differential, therefor.
Title Page (56) pg 2 Col. 1 (Other Publications)	2	Delete "differentail" and insert differential, therefor.
1	12	Delete "entirely;" and insert entirety;, therefor.
1	22	Delete "entirely." and insert entirety, therefor.
7	13	Delete "suceptibility," and insert susceptibility,, therefor.
9	64	After "vector." delete "the" and insert The, therefor.
12	27 (Approx.)	Delete "sows" and insert shows, therefor.
13	5	After "direction" insert
18 (Equation 30)	43 (Approx.)	Delete " $-\nabla \cdot \left(\epsilon \nabla V + \epsilon \frac{\partial A}{\partial t} + \epsilon \frac{\partial \nabla \chi}{\partial t} \right) = \chi$ " and
18 (Equation 31)	46 (Approx.)	Delete " $J - \varepsilon \frac{\partial}{\partial t} \left(\nabla V \right)$ " and insert $J - \varepsilon \frac{\partial}{\partial t} \left(\nabla V \right)$, therefor.
18 (Equation 33)	61 (Approx.)	Delete " $\nabla \cdot (\varrho \nabla v) = -\rho$ " and insert $\nabla \cdot (\varepsilon \nabla v) = -\rho$, therefor.
18 (Equation 34)	63 (Approx.)	Delete " $J - e \frac{\partial}{\partial t} \left(\nabla V \right)$ " and
		insert $J - \varepsilon \frac{\partial}{\partial t} \bigg(\nabla V - t, \text{ therefor.} \bigg)$

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Column	Line	Description of Error
19	35	Delete "co." and insert ω, therefor.
19 (Equation 36)	38 (Approx.)	Delete " $\nabla \cdot (e \nabla V) = -\rho$ " and insert $\nabla \cdot (e \nabla V) = -\rho$, therefor.
19 (Equation 37)	42 (Approx.)	Delete " $J - j\omega \epsilon \nabla V + \epsilon \omega^2 A + \epsilon \omega^2$ " and insert $J - j\omega \epsilon \nabla V + \epsilon \omega^2 A + \epsilon \omega^2 \nabla \chi$, therefor.
19	66	Delete " $\zeta = \zeta_0 - \zeta e^{i\omega t}$." and insert $\zeta = \zeta_0 - \zeta e^{i\omega t}$, therefor.
20 (Equation 50)	61 (Approx.)	Delete " $\nabla \cdot (e \nabla \hat{V}) - \hat{\rho} = 0$ " and insert $\nabla \cdot (e \nabla \hat{V}) - \hat{\rho} = 0$, therefor.
20 (Equation 51)	63 (Approx.)	Delete " $j\omega e \nabla \hat{V}$ — " and insert — $j\omega e \nabla \hat{V}$ — —, therefor.
22 (Equation 66)	60	Delete " $\int_{\Delta L_{ij}} \nabla \vee \cdot dS \sim V_{j} - V_{i}$ " and insert $\int_{\Delta L_{\bullet}} \Delta V \cdot dl \sim V_{j} - V_{i}$,
		therefor.
23 (Equation 67)	13 (Approx.)	Delete $\sim \frac{\Lambda_{ij}}{\mu_0} A_{ij} + \sum_{kl}^{\frac{1}{2}} \frac{\Lambda_{ij}^{kl}}{\mu_0} A_{kl}$ " and insert $-\sim \frac{A_{ij}}{\mu_0} A_{ij} + \sum_{kl}^{\frac{1}{2}} \frac{A_{ij}^{kl}}{\mu_0} A_{kl}$,
		therefor.
(Equation 68)	23 (Approx.)	Delete " $\int_{\Delta Y_{i}} \nabla \cdot (e^{\eta} Y) d\tau = \int_{\partial_{\lambda} Y_{i}} e^{\eta} Y \cdot dS - \int_{i}^{L} S_{k} e_{k} \frac{Y_{i} - Y_{i}}{k_{k}}$ and $-\int_{\Delta Y_{i}} \nabla \cdot (e^{\eta} Y) d\tau = \int_{\partial_{\lambda} Y_{i}} e^{\eta} Y \cdot dS - \int_{i}^{L} S_{k} e_{k} \frac{Y_{i} - Y_{i}}{k_{k}}$ insert $-\int_{\Delta Y_{i}} e^{\eta} V \cdot (e^{\eta} Y) d\tau = \int_{\partial_{\lambda} Y_{i}} e^{\eta} Y \cdot dS - \int_{i}^{L} S_{k} e_{k} \frac{Y_{i} - Y_{i}}{k_{k}}$ $,$
		therefor.

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23 (Equation 70)	44 (Approx.)	Delete " $(\nabla \cdot (\varrho \Delta v)$ " and insert $(\nabla \cdot (\epsilon \nabla v)$, therefor.
23 (Equation 73)	61 (Approx.)	Delete " $j\mu_0 Se_{ij}S_{ij}$ " and insert $j\mu_0 \omega \ \epsilon_{ij}S_{ij}$, therefor.
23 (Equation 74)	65	Delete " $S_{ik}e_{ik}$ " and insert $S_{ik}\epsilon_{ik}$, therefor.
24 (Equation 77)	21 (Approx.)	Delete "- S_{ij} (" and insert σ_{ij} (, therefor.
24 (Equation 80)	53 (Approx.)	Delete " And $J_{ij} = -\frac{a}{h_{ij}} B \left(\frac{-\beta_{ij}}{a} \right) c_{i} + \frac{a}{h_{ij}} B \left(\frac{\beta_{ij}}{a} \right) c_{j}$ Insert $J_{ij} = -\frac{a}{h_{ij}} B \left(\frac{-\beta_{ij}}{a} \right) c_{i} + \frac{a}{h_{ij}} B \left(\frac{\beta_{ij}}{a} \right) c_{i}$,
		therefor.
25	66 (Approx.)	Delete "FIG." and insert FIGS, therefor.
27	64 (Approx.)	Delete "Amperes" and insert Ampere's, therefor.
27	66 (Approx.)	Delete " $=I^1$." and insert $=I^{(1)}$, therefor.
29	17	Delete "Hehnholtz" and insert Helmholtz, therefor.
31	45 (Approx.)	Below "struct cubeListPointer *next;" insert };
32 (Equation 94)	39 (Approx.)	Delete " $\nabla \times \nabla \times A_R - \mu_o \varepsilon \omega^2 A_R - \mu_o \varepsilon \omega \nabla$ " insert $\nabla \times \nabla \times A_R - \mu_o \varepsilon \omega^2 A_R - \mu_o \omega \nabla -$, therefor.

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Column	Line	Description of Error
37	38	Delete "subtractions)=as" and insert subtractions) as, therefor.
38	20-21 (Approx.)	Delete " X " O(10-14)." and insert X " O(10 ⁻¹⁴), therefor.
38	54	Delete " $10^{-8}\Omega m^{-8}$." and insert $10^{-8}\Omega m$, therefor.
39	31 (Approx.)	After "with" delete "I" and insert I, therefor.
39	34 (Approx.)	Delete "L=[$(\mu_0 In(b/a))/(2\pi)$]." and insert L=[$(\mu_0 In(b/a))/(2\pi)$], therefor.
42	9	Delete " 189 ," and insert I_{89} ,, therefor.
42	17 (Approx.)	Delete " d_7 x I_{19} " and insert d_7 + I_{19} , therefor.
43	26	Delete "2n" and insert 2n, therefor.
47	7 (Approx.)	Before "second" delete "the".
50	42 (Approx.)	Delete "succesive" and insert successive, therefor.

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Column

Line

Description of Error

53

1

In Claim 9, delete "A apparatus" and insert -- An apparatus --, therefor.

Signed and Sealed this

Twenty-ninth Day of January, 2008

JON W. DUDAS

Director of the United States Patent and Trademark Office